

1 mktngfkdfawkkcllgasvgallvgcsphiietnevalklnyhpasekvqaldekill  
61 lrpafqysd*niakeyenkfn*qtvlkveqilqnqgykvinvdssdkddfsfaqkkegyla  
121 vamngeiv*lrpdpkrtiqkksep*llfstgldkmegvlipagfvktilepm*sgesldsf*  
181 t*mdlseldiqekflkthshsgglvstmvkgtdnsndaiksalnkifgsimqeidkklt*  
241 qknlesyqkdakelkgkrnr

FIG. I

# Fig 2a

*Streptococcus pneumoniae* pspA homologous sequence ->

x x x I D K x x T Q K x L E x x x x x DA x E L x x x x x

*H. pylori* flagellar sheath adhesion protein sequence ->

M Q E I D K K L T Q K N L E S Y Q K D A K E L K G K R N

*Mycoplasma hominis* Lp1 homologous sequence ->

x x E I x K K L x x x x E S x x K D A K E L x G x R N

Fig 2b

Figure 3 Plot  
Figure 4 Plot  
Figure 5 Plot

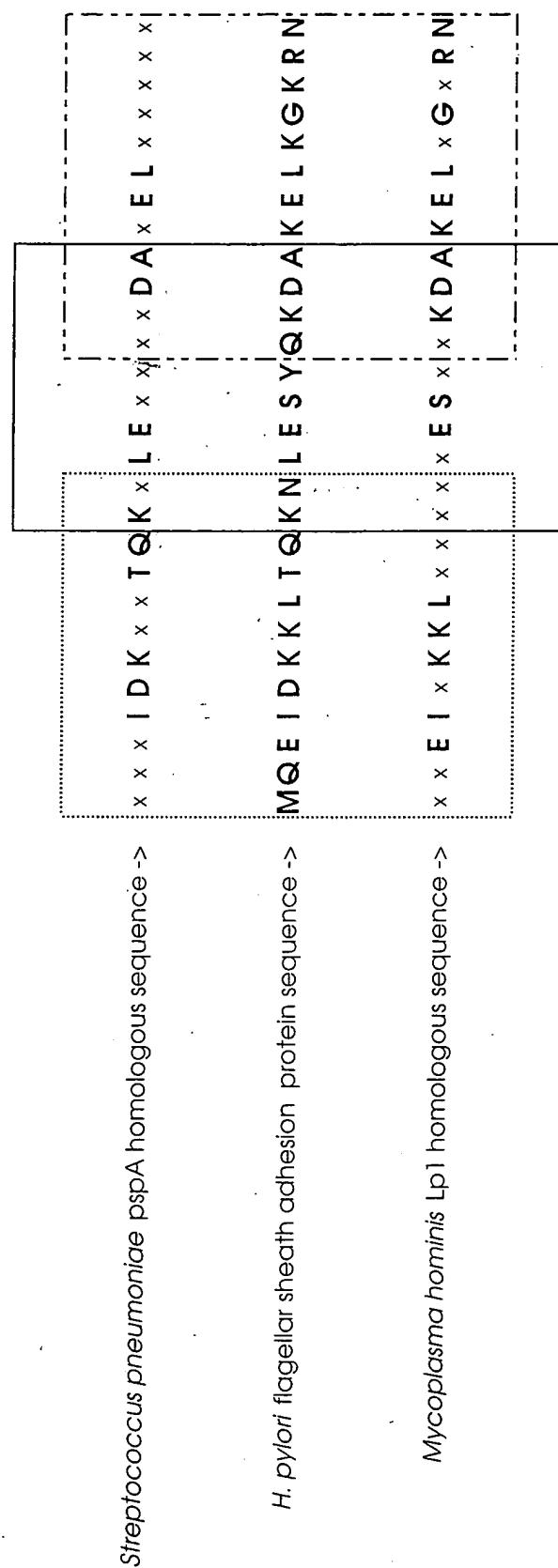


FIG. 3

*H. pylori* Peptide MQEIDKKLTQKN Test Data

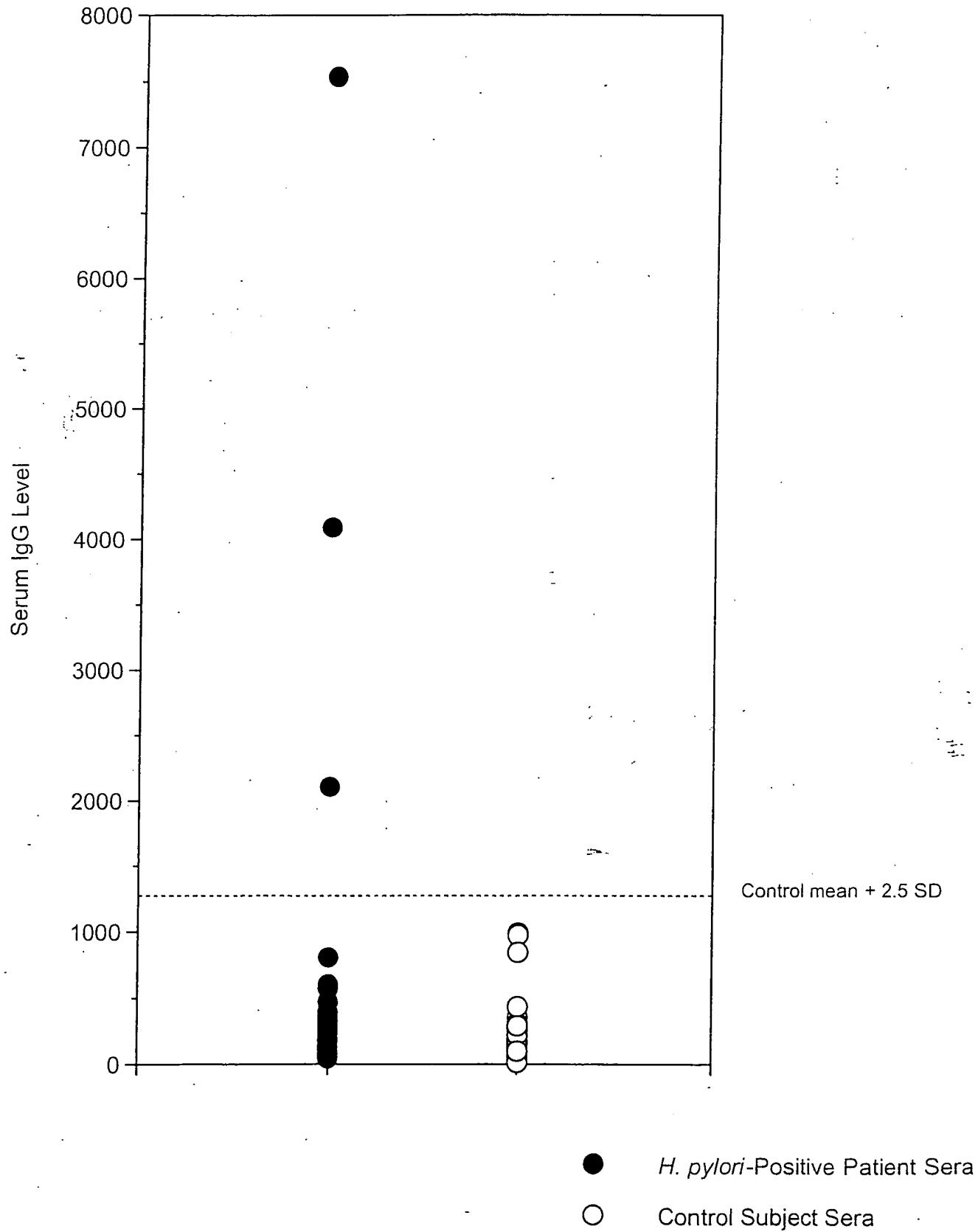


FIG 4

*H. pylori* Peptide KNLESYQKDA Data

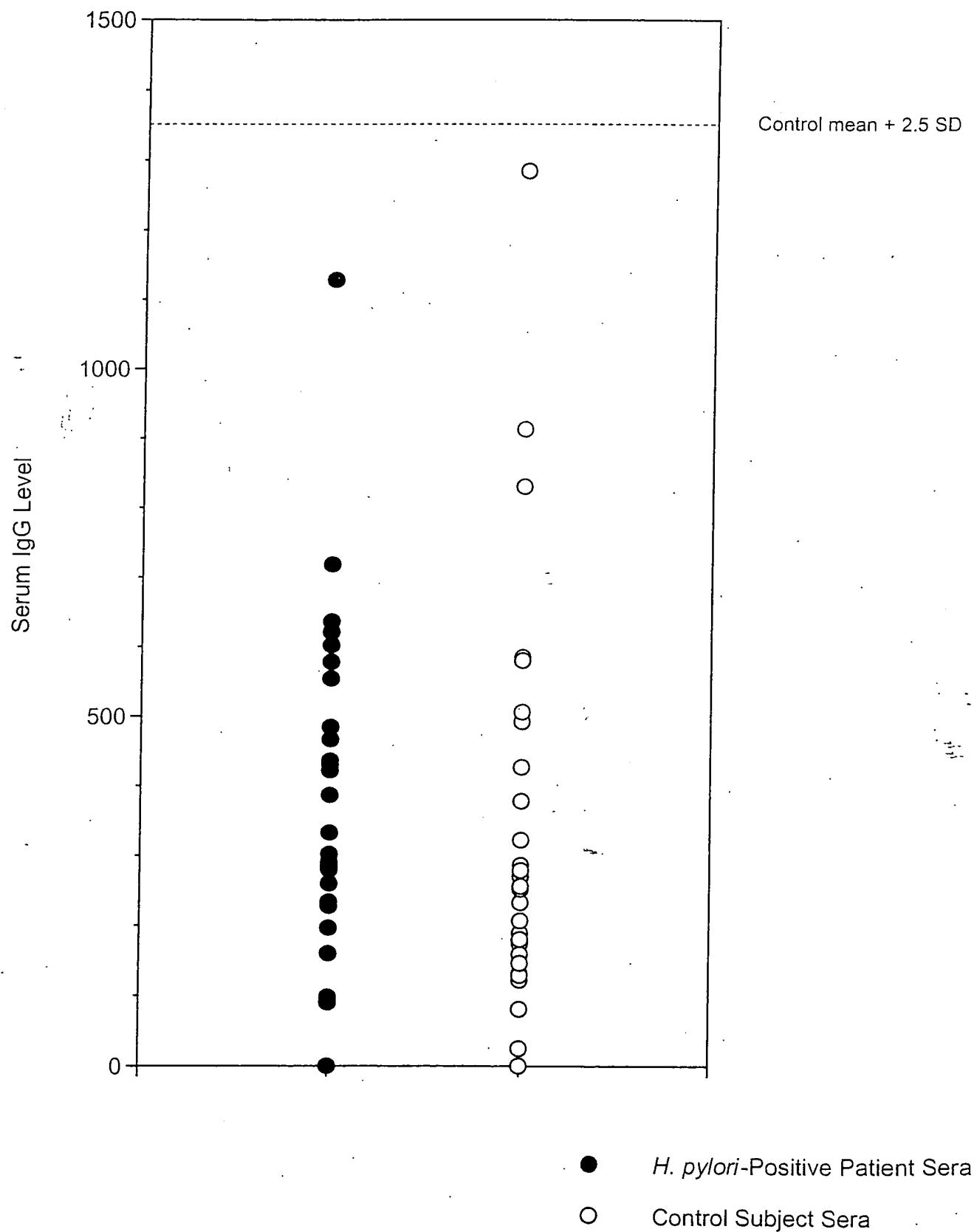
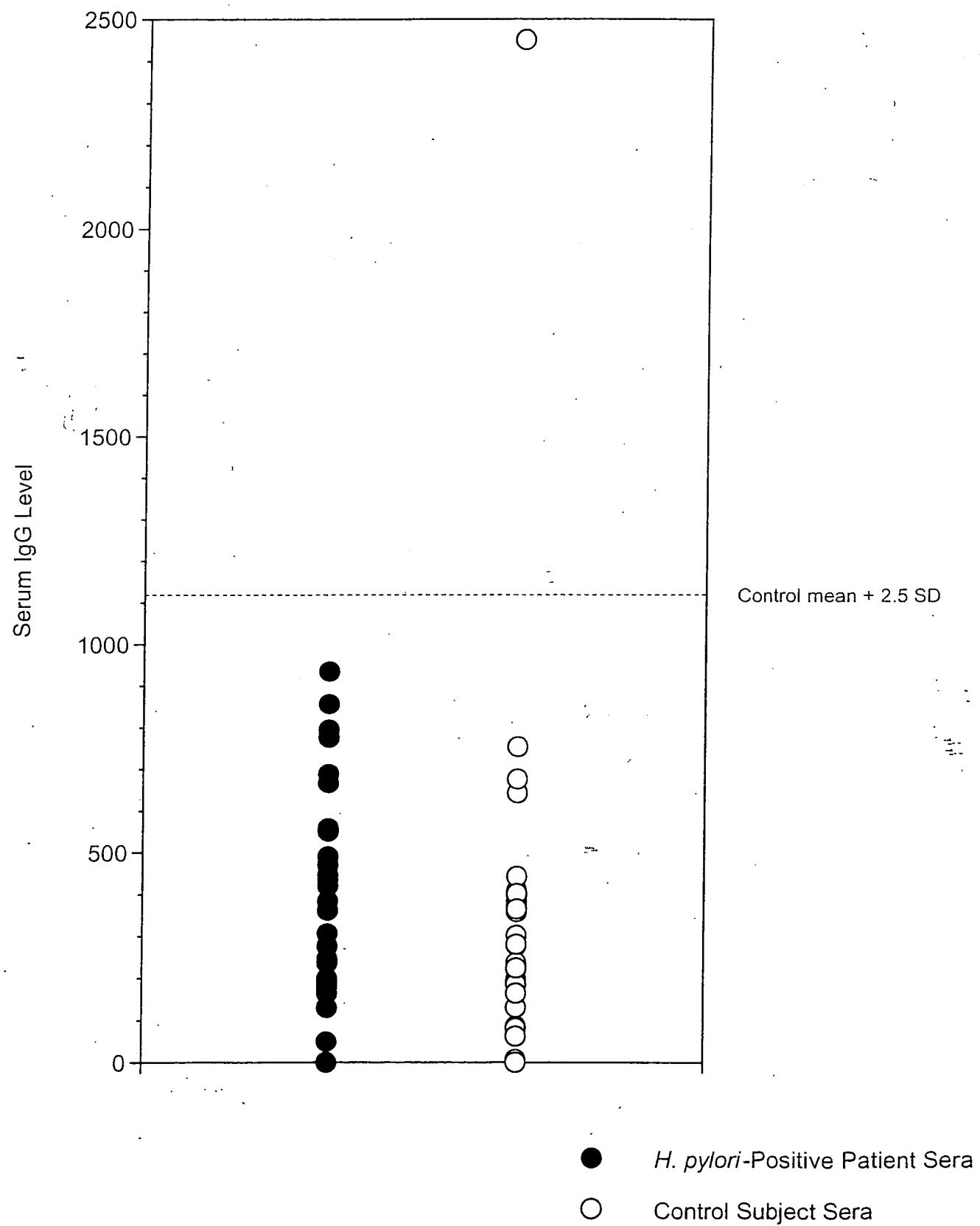


FIG 5

*H. pylori* Peptide QKDAKELKGKRN Data



# FIG. 6

## Parent *H. pylori* Protein

Adhesin 2

Iron-Regulated Outer  
Membrane Protein

Lipid A Disaccharide Synthase

LPP20 Lipoprotein

Flagellar Sheath Adhesin

Outer Membrane Protein 1

Outer Membrane Protein 19

Outer Membrane Porin 1

Outer Membrane Porin 2

Vacuolating Cytotoxin

## Functionally Specific Peptide Antigens

LPALKENNGKV

VTTKGERTFEYNN

LEQNEGFKRRV

TVDASGKRSISG

MQEIDKKLTQKN

NTRYDRWAKD

INGDKRTGGKPNTPE

SSSEYEKLKA

KEQIIIEAKGPDV

QQTHRキンRP

KQAEEANKTP

KTPDKPDKVW

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Fig. 7a

### Number of IgG-Positive Results On Individual Peptide Assays

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### Number of IgG-Positive Results On Individual Peptide Assays

**Human Type II Collagen Functionally Specific Peptide Antigens**

QQQDVRQPG

GRDGE

GGFDEKAGGA

WPGLPGA

GLPGTPGTDGPKGASGPAGPPGAQGPPG

GPEGAPGKDGGGRGLT

GEVGPPGPAGSAGARGAP

TGPKGARGAQGPPGATGFPGAA

NGNPGPPGPPGPS

LQGPAGPP

AVGAPGAPGPPGSPGPAGPTGKQGD

KGHRGFTGLQ

IGPPGPRGRSGETGPAGPPGN

Fig 8